



SCS Directory

Accreditation number: SCS 0128

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

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Initial accreditation: 14.05.2012
Current accreditation: 14.05.2017 to 13.05.2022
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 14.05.2017

Calibration laboratory for electrical quantities

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Direct voltage	0,1 V to 1000 V		0,02 %	Measuring instruments calibration
	5 kV to 180 kV		0,4 %	Calibration of measuring systems
	5 kV to 300 kV		0,4 %	
	35 kV to 375 kV		0,2 %	
Alternating voltage	300 kV to 900 kV	10 Hz to 10 kHz	1,0 %	Measuring instruments calibration
	300 kV to 1500 kV		1,0 %	
	375 kV to 1875 kV		1,0 %	
	0,3 V to 1000 V		0,11 %	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Alternating voltage RMS- and peak voltage	10 kV to 180 kV	50 Hz, 60 Hz	0,4 %	Calibration of measuring systems
	25 kV to 250 kV	50 Hz, 60 Hz	0,4 %	
	5 kV to 500 kV	50 Hz to 300 Hz	0,6 %	
	5 kV to 200 kV	50 Hz, 60 Hz	0,3 %	
	180 kV to 900 kV	50 Hz, 60 Hz	1,0 %	
	200 kV to 1000 kV	50 Hz, 60 Hz	1,0 %	
Impulse voltage (LI)	250 kV to 1250 kV	50 Hz, 60 Hz	1,0 %	Measuring instruments calibration LI = Lightning impulse full wave LIC = Lightning impulse chopped SI = Switching impulse T ₁ = Front time T ₂ = Time to half value T _c = Time to chop T _p = Time to peak
	80 V to 1600 V	Load:	0,6 %	
		>250 k Ω 100 pF to 300 pF		
Time parameters T ₁ T ₂	0,84 μ s		1,2 %	
	60 μ s		1,4 %	
Impulse voltage (LIC)	400 V to 1250 V		1,0 %	
Time parameters T _c	0.50 μ s		2,0 %	
Impulse voltage (SI)	80 V to 1000 V		0,6 %	
Time parameters T _p T ₂	20 μ s		1,2 %	
	4000 μ s		1,2 %	
Impulse voltage (LI)	200 kV to 250 kV		0,5 %	Calibration of measuring systems LI = Lightning impulse full wave LIC = Lightning impulse chopped SI = Switching impulse T ₁ = Front time T ₂ = Time to half value T _c = Time to chop T _p = Time to peak
	50 kV to 500 kV		0,8 %	
	80 kV to 800 kV		0,6 %	
	500 kV to 2500 kV		1,0 %	
	800 kV to 4000 kV		1,0 %	
Time parameters T ₁ T ₂	0,8 μ s to 1,6 μ s		1,7 %	
	40 μ s to 60 μ s		1,7 %	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Impulse voltage (LIC)	50 kV to 500 kV		0,9 %	
Time parameters T_c	0,5 μ s to 6,0 μ s		2,0 %	
Impulse voltage (SI)	200 kV to 250 kV 50 kV to 500 kV 80 kV to 800 kV		0,5 % 0,9 % 0,6 %	
Time parameters T_p T_2	500 kV to 2500 kV 600 kV to 3000 kV		1,0 % 1,0 %	
	200 μ s to 300 μ s 1000 μ s to 4000 μ s		1,7 % 1,7 %	
Apparent charge q_0	1 pC to 50 nC		0,023· q_0 [pC] + 0,035 [pC]	Calibration of partial discharge calibrators (IEC 60270:2000 + AMD1:2015)
Time parameter	0,1 μ s to 2000 μ s		2,0 %	Calibration of partial discharge calibrators (IEC 60270:2000 + AMD1:2015)
Pulse repetition frequency N	0,1 Hz to 1500 Hz		10 ppm	
Capacitance	10 pF to 146 nF	0,5 kV to 2 kV 50 Hz, 60 Hz	0,02 %	Calibration of capacitors
	10 pF to 146 nF	5 kV to 100 kV 50 Hz, 60 Hz	0,02 %	Calibration of capacitors
	10 pF to 146 nF	5 kV to 500 kV 50 Hz, 60 Hz	0,2 %	Calibration of capacitors
	Greater than 0,01 pF		0,02 %	Calibration of measuring bridges
Dissipation factor	1E-05 to 1E-01	50 Hz, 60 Hz	2,50 E-05	Calibration of capacitors
	1E-05 to 1E-01	50 Hz, 60 Hz	2,50 E-05	Calibration of measuring bridges

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